Application No.: 09/896,429 Docket No.: HO-P02540US1

REMARKS

This amendment is filed in response to the Office Action mailed on October 20, 2003. Claims 1-18 are pending in the application. Claims 1, 6, 7, 12, 13, and 18 have been amended.

The applicant thanks Examiners Farah and Dvorak for the courtesy of the personal interview held on January 5, 2004, during which claims 1-18 were discussed in the context of the reasons for rejecting the claims and the prior art Lai (U.S. patent 5,549,632), Swinger et al. (U.S. patent 6,325,792) and Davidson (U.S. patent 5,282,088) patents. Mr. Gordon S. Scholler, one of the inventors, attended the interview and discussed how the claimed invention was discovered and why it is not obvious over the cited prior art patents. A Declaration Under 37 CFR § 1.132 of Mr. Scholler is attached which covers the points he made at the interview.

The applicant, IntraLase Corp., is licensed under the Lai '632 patent, the primary prior art reference relied on in the rejection, which describes a laser system and applanator plate that can be used in ophthalmic surgery. (Scholler Decl., ¶ 2).

IntraLase manufactures and sells to ophthalmic surgeons a laser system that is used to form a flap in corneal tissue for the first step in the procedure known as *laser in situ keratomileusis* (LASIK). The surgeon creates the flap using laser energy in a precisely controlled way to photodisrupt tissue below the surface of the cornea. The flap is held by an instrument and lifted to expose underlying internal corneal tissue to be shaped by another laser. Afterward, the flap is returned to its original position. This procedure changes the refractive characteristics of the eye to improve the patient's vision. (Scholler Decl., \P 3).

One component for success of this operation is a patient interface device, which stabilizes the patient's eye and holds the laser system in a fixed position relative to the patient's eye. The patient interface holds the laser system in place relative to the eye so that the laser can form the flap at precisely the right location and depth. When coupled to the laser system, a critical part of the patient interface is an applanation lens that contacts the eye. (Scholler Decl., ¶ 4).

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The applanation lens must be biocompatible because it contacts the eye, and cannot be formed of a material or create by-products of a material that could irritate or damage the sensitive corneal tissue. The lens must also be sterilized, preferably with gamma radiation. Gamma radiation is preferred to other acceptable methods of sterilization because it lends itself to process controls that result in reduced within-process variability thereby producing higher repeatability from one sterilization run to another. Also, compared with other methods, sterilization by gamma radiation leaves no undesirable residue and is more cost effective. The lens must also be formed of a transparent material, have a high level of transmittance for light in the ranges used by lasers, from UV to IR. The lens material must also be able to transmit the laser light without melting or sputtering to create by-products that would injure eye tissue. (Scholler Decl., ¶ 5).

Mr. Scholler also described the process that he and the other inventors went through in developing a commercial application of the system in the Lai '632 patent, before they discovered that high purity, noncrystalline fused silica was the ideal material for the applanation lens in the patient interface.

Mr. Scholler and his team began by testing plastics of the type described in the Lai '632 patent, which had previously been used in other types of eye products. The Lai '632 patent, col. 7, lns. 47-49, describes that "[t]he applanator plate 111 is preferably constructed of a transparent light weight plastic, such as acrylic." After testing a number of plastic materials, Mr. Scholler's team found that none of them was satisfactory because they either melted or sputtered when laser energy was transmitted through the lens. This effect was unacceptable because the sputtered or melted plastic could injure the eye or cause scarring. (Scholler Decl., ¶ 6).

Mr. Scholler's team next decided to test an optical boron glass material that appeared to be promising because it was biocompatible, had a high degree of transmittance, and would not melt or sputter too much when subjected to laser energy. This material worked well in initial tests. However, when it was sterilized by exposure to gamma radiation it unexpectedly discolored and lost about 20% of its ability to transmit light at the wavelength used in our laser system. (Scholler Decl., ¶ 7).

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They then looked for a biocompatible material that would not sputter unacceptably or melt, one that had a high degree of transmittance for laser light, and, when exposed to gamma radiation, would not lose transmittance at the wavelength at which the IntraLase laser operates. The team looked at various types of silica and found that crystalline forms of silica like those used in making glass would also discolor and lose transmittance, but that an amorphous, noncrystalline, synthetic silicon dioxide, called synthetic fused silica, would not discolor when exposed to gamma radiation. This material was tried and found to work. It did not discolor or result in lower transmittance after being sterilized with gamma radiation. (Scholler Decl., ¶ 8). This material is disclosed in the specification on p. 12, ¶ 0047.)

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This is the product being made and sold by IntraLase, and which is the subject of the claims pending in this application.

There are three independent claims pending in the application. Claim 1 is directed to an improved applanation lens for use as an interface between a patient's eye and a surgical laser system. The lens has an applanation surface configured to contact the eye and is formed of a high purity synthetic fused silicon dioxide such that the lens does not discolor or lose light transmittance when subjected to gamma radiation. Claim 7 is directed to an interface with an attachment apparatus adapted to overlay the anterior surface of an eye and for stable engagement to the eye, with the applanation lens adapted to be mounted on the attachment surface. The lens in claim 7 has the same structure and characteristics as the lens is claim 1. Claim 13 is directed to a method for applanating an anterior surface of a patient's eye and coupling the eye to a surgical laser. The method includes the steps of providing an interface that has been sterilized by using gamma radiation. The interface includes a lens that is positioned in proximate contact with the operative area of the eye, which has the same structure and characteristic as the lens of claim 1.

It is submitted that these claims are patentable over the prior art cited by the Examiner. In the office action mailed October 20, 2003, all of the claims were rejected over the Lai '632 patent, combined with Swinger and Davidson. The Examiner took the position that the Lai '632 patent taught all of the features in the claims except for the type of laser used with his invention, and fails to teach the material in which the applanation lens is made of, or its relative laser wavelength. The Examiner cited Swinger as teaching an alternative type of laser that uses UV light and an applanation lens, and mentioned that it does not teach

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the material from which the lens is formed. The Examiner cited Davidson as teaching an applanation lens formed of fused silica and transparent in the UV spectrum, down to about 180 nm. The Examiner commented that since Davidson is made of the same material recited in the claims, it will "have 'a purity great enough to resist discoloration upon prolonged irradiation produced by high energy irradiation sources such as UV, X-rays, gamma rays, etc.," and concluded that it would have been obvious to one skilled in the art to modify Lai and Swinger in view of Davidson to make an applanation lens of fused silica and have the characteristics as claimed.

It is submitted the claimed invention is not obvious over the cited references. First, neither Lai nor Swinger teaches or suggests that an applanation lens of the type used for a surgical laser that contacts the eye must be formed of a synthetic fused silica, which all of the claims require. In fact, Lai '632 teaches away from the claimed invention because it says that the lens is preferably formed of a transparent, light weight plastic such as acrylic. No other material is mentioned in either reference. As shown above, plastics were found not to work.

Although Davidson discusses a spherical lens formed on the end of an optical fiber—that is made from "fused silica," this reference combined with Lai and/or Swinger does not render the claimed invention obvious. It is submitted that Davidson is not analogous to the claimed inventions. Davidson was not concerned with a lens useful for contacting the eye and as part of a laser system for eye surgery, but as part of instrument for inspecting and measuring semiconductor products. The lens in Davidson is formed by heating the tip of an optical fiber and forming a spherical shape at the tip which becomes the lens. This lens is used in the deep ultraviolet wavelength, down to 180 nm wavelength, so that it can be used to measure line widths to below 0.4 mm for defect inspection. Thus, there is no teaching of a lens that can be in contact with the eye during surgery, nor any requirement that the lens be sterilized by any method, nor any suggestion that the lens should not discolor or lose transmittance when sterilized by a specific method, gamma radiation.

Even if Davidson is properly applicable as a reference, it falls short of providing any teaching that would render the claimed subject matter obvious. First, Davidson only mentions that fused silica is used in his lens. This is not a teaching of synthetic fused silica as claimed. The term "fused silica" is commonly used to describe not only synthetic fused silica, but also any type silica glass, even vitreous glass of the type formed of sand which the

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inventors found discolors when exposed to gamma radiation. The definition of "silica glass" from the McGraw-Hill Dictionary of Scientific and Technical Terms, 5th Ed., 1994, p. 1825, attached as Exhibit 1, describes silica glass generally as "A translucent or transparent vitreous material consisting almost entirely of silica. Also, known as fused silica; vitreous silica." Similar definitions in Merriam Webster's Collegiate Dictionary, 10th Ed., 1994, copies attached as Exhibit 2, confirm that Davidson does not teach the use of synthetic fused silica. The term "fused quartz" is defined as "QUARTZ GLASS – also called fused silica" (p. 474); "quartz glass" as "vitreous silica prepared from pure quartz and noted for its transparency to ultraviolet radiation;" (p. 957); and "quartz" as "A mineral consisting of silicon dioxide occurring in colorless and transparent and hexagonal crystals or in crystalline masses . . . " (p. 957). These definitions establish that even though Davidson_mentions fused quartz, he is interested in transmitting light in the ultraviolet region, and does not teach that his lens is formed of a synthetic fused silica. Instead, these definitions establish that his use of the term fused quartz would not be understood to mean that the lens is formed of a synthetic fused silica, but from a quartz glass which is noted for its transparency to ultraviolet radiation and which is formed from a silicon dioxide mineral. Nor is there any teaching that the lens in Davidson does not discolor when it is exposed to gamma radiation.



For these reasons it is submitted that the references cited by the Examiner do not render the claimed subject matter obvious and that the pending claims should be allowed. Applicant requests reconsideration and withdrawal of all rejections.

In view of the above, each of the presently pending claims in this application is believed to be in immediate condition for allowance. Accordingly, the Examiner is respectfully requested to pass this application to issue.

Applicant believes no fee is due with this response. However, if a fee is due, please charge our Deposit Account No. 06-2375, under Order No. HO-P02540US1 from which the undersigned is authorized to draw.

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Dated: Fabruary 24, 2004

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Respectfully submitted,

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On the cover: Photomicrograph of crystals of vitamin B₁. (Dennis Kunkel, University of Hawali)

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In addition, material has been drawn from the following references: R. E. Huschke, Glossary of Meteorology, American Meteorological Society, 1959; U.S. Air Force Glossary of Standardized Terms, AF Manual 11-1, vol. 1, 1972; Communications Electronics Terminology, AF Manual 11-1, vol. 3, 1970; W.H. Allen, ed., Dictionary of Technical Terms for Aerospace Use, 1st ed., National Aeronautics and Space Administration, 1965; J. M. Gilliland, Solar-Terrestrial Physics: A Glossary of Terms and Abbreviations, Royal Aircraft Establishment Technical Report 67158, 1967; Glossary of Air Traffic Control Terms, Federal Aviation Agency; A Glossary of Range Terminology, White Sands Missile Range, New Mexico, National Bureau of Standards, AD 467-424; A DOD Glossary of Mapping, Charting and Geodetic Terms, 1st ed., Department of Defense, 1967; P. W. Thrush, comp. and ed., A Dictionary of Mining, Mineral, and Related Terms, Bureau of Mines, 1968; Nuclear Terms: A Glossary, 2d ed., Atomic Energy Commission; F. Casey, ed., Compilation of Terms in Information Sciences Technology, Federal Council for Science and Technology, 1970; Glossary of Stinfo Terminology, Office of Aerospace Research, U.S. Air Force, 1963; Naval Dictionary of Electronic, Technical, and Imperative Terms, Bureau of Naval Personnel, 1962; ADP Glossary, Department of the Navy, NAVSO P-3097.

McGRAW-HILL DICTIONARY OF SCIENTIFIC AND TECHNICAL TERMS, Fifth Edition

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234567890 DOW/DOW 9987654

ISBN 0-07-042333-4

Library of Congress Cataloging-in-Publication Data

McGraw-Hill dictionary of scientific and technical terms / Sybil P. Parker, editor in chief.—5th ed.

p. cm.
ISBN 0-07-042333-4
1. Science—Dictionaries. 2. Technology—Dictionaries.
I. Parker, Sybil P.
Q123.M34 1993
503—dc20 93-34772
CIP

INTERNATIONAL EDITION

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furrow press. [AGR]. A device that firms the earth in a furrow after plowing. { | fərō pres } after provides [QUANT MECH] In quantum electrodynamics; the theorem that the contribution of a Feynman diagram, consisting of a closed polygon of fermion lines connected to an odd number of photon lines, vanishes. { 'fəre thirəm } turuncle [MED] A small cutaneous abscess, usually resulting from infection of a hair follicle by Staphylococcus aureus. Also known as boil. { 'fyur,əŋ:kəl } furunculosis [MED] A condition marked by numerous furuncles, of the recurrence of furuncles following healing of a preceding crop. [fyu,rəŋ·kyə'lō·səs] tusain [GEOL] The local lithotype strands or patches, char-

acterized by silky luster, fibrous structure, friability, and black color. Also known as mineral charcoal; mother-of-coal. { 'fyüˌzān } Fusarium [MYCOL] A genus of fungi in the family Tubercu-

lariaceae having sickle-shaped, multicelled conidia; includes many important plant pathogens. (fyü'zarē-əm.)

Fusarlum oxysporum [MYCOL] A pathogenic fungus causing a variety of plant diseases, including cabbage yellows and wilt of tomato, flax, cotton, peas, and muskmelon. { fyu'za-rēəm äk-səlsporəm }

Fusarium solani [MYCOL] A pathogenic fungus implicated in root rot and wilt diseases of several plants, including sisal and squash. 4 (fyü'za re əm so'lan e)

tuse [ELEC]. An expendable device for opening an electric circuit when the current therein becomes excessive, containing a section of conductor which melts when the current through it exceeds a rated value for a definite period of time. Also known as electric fuse. [ENG] Also spelled fuze. 1. A device with explosive components designed to initiate a train of fire or detonation in an item of ammunition by an action such as hydrostatic pressure, electrical energy, chemical energy, impact, or a combination of these. 2. A nonexplosive device designed to initiate an explosion in an item of ammunition by an action such as continuous or pulsating electromagnetic waves or acceleration gl fyüz h

fuse alarm; [ELEC] Circuit that produces a visual or audible signal to indicate a blown fuse. { 'fyuz ə, larm }

tise blasting cap [ENG] A small copper cylinder closed at one end and charged with a fulminate. { 'fyuz 'blast in kap } tuse block. [ELEC] An insulating base on which are mounted tuse clips of other contacts for fuses. Also known as fuseboard. [USE] black. ['fyüz,bord] tuseboard. [USE] The part of a fuse contributing the major

the total weight, and which houses the majority of the parts; and to which smaller parts are attached.

ee cutout box. [/fyüz bäks] Comments of the second second

use cutout [gielec]. Assembly of a fuse support and a fuse himay or may not include the fuse link. { fyüz

daromatic ring: [ORG CHEM] A molecular structure in Common (filled aro madic rings have two carbon atoms in

electrolyte battery. See thermal battery. { 'fyüzd i'lek-

LECTR] A diode that opens under specified cur-

culsurse conditions his function of the blade. (fyuz disconnecting switch in which after unit forms a part of the blade. (fyuz dis kə'nek-

de l'action transistor See alloy-junction transistor. This is a light transaction of the light of (Jess) coressiniu

sulfide See potassium sulfide. ['fyüzd िधुमें विक्र व्याक्टिस्टा हिं

A glasslike insulating material made yielding crushed crystals of natural quartz or a certain type Continue and [a'fyüzd 'kworts }

INGECTIONS [PHYS CHEM] Electrolysis with use Control insedigatis as raw material and as an electrolyte. fused-salt reactor See molten-salt reactor. { fyuzd solt rē'ak tar l

fused semiconductor [ELECTR] Junction formed by recrystallization on a base crystal from a liquid phase of one or more components and the semiconductor. { 'fyuzd 'sem-i-kən ,dək-

fused silica See silica glass. : { |fyüzd 'sil-ə-kə } 🦈 fused silver nitrate See lunar caustic. { 'fyuzd 'sil-vər 'nī, trāt } fused spray deposit [MET] In thermal spraying, deposit which is sprayed on a preheated substrate and has the capability to coalesce within itself as well as to the substrate. { |fyuzd !sprā di'päz·ət }

fusee [HOROL] In a timepiece, a conical pulley with grooves in a spiral configuration from which a cord or chain unwinds onto a barrel containing the spring; the increasing diameter of the pulley compensates for the lessening power of the spring. [VET MED] A bony growth occurring on a horse's leg. Also spelled fuzee. { fyü!zē }

fuse gage [ENG] An instrument for slicing time fuses to length. { 'fyüz ˌgāj }

fusehead [ENG] That part of an electric detonator consisting of twin metal conductors, bridged by fine resistance wire, and surrounded by a bead of igniting compound which burns when the firing current is passed through the bridge wire. { 'fyüz,hed }

fuselage [AERO ENG] In an airplane, the central structure to which wings and tail are attached; it accommodates flight crew,

passengers, and cargo. { 'fyü'sə,läzh } fuse lighter [ENG] A device for facilitating the ignition of the powder core of a fuse. { 'fyüz ,līd·ər }

fuse link [ELEC] Part of a fuse that carries the current of the circuit and all or part of which melts when the current exceeds a predetermined value. { 'fyüz ,liŋk }

fusel oil [MATER] A volatile, poisonous mixture of isoamyl, butyl, propyl, and heptyl alcohols produced as by-products in alcoholic fermentation of starches, grains, or fruits to produce ethyl alcohol. { 'fyü zəl oil }

fuse PROM [COMPUT SCI] A programmable read-only memory in which the programming is carried out either by blowing open microscopic fuse links to define a logic one or zero for each cell in the memory array, or by causing metal to short out base-emitter transistor junctions to program the ones or zeros into the memory. { 'fyüz ,präm }

fuse wire [ELEC] Wire made from an alloy that melts at a relatively low temperature and overheats to this temperature when carrying a particular value of overload current. { 'fyüz .wīr l

fusibility [THERMO] The quality or degree of being capable of being liquefied by heat. { ,fyü'zə'bil əd ē }

fusible alloy [MET] A low melting alloy, usually of bismuth, tin, cadmium, and lead, which melts at temperatures as low as 70°C (160°F). { 'fyü-zə-bəl 'al,oi }

fusible plug See safety plug. { fyu zo bol 'plog } fusible resistor [ELEC] A resistor designed to protect a circuit against overload; its resistance limits current flow and thereby protects against surges when power is first applied to a circuit; its fuse characteristic opens the circuit when current drain exceeds design limits. [fyü zə bəl ri zis tər]

fusiform [BIOL] Spindle-shaped; tapering toward the ends. { 'fvü·zə.form }

fusiform bacillus [MICROBIO] A bacillus having one blunt and one pointed end, as Fusobacterium fusiforme. { 'fyüzə.form bə'sil əs

fusiform initial cell [BOT] A cell type of the vascular cambium that gives rise to all cells in the vertical system of secondary xylem and phloem. { 'fyü-zə,form ə¦nish-əl 'sel }-

fusimotoneuron [PHYSIO] One of the small motor fibers, composing about 30% of the fibers in the ventral root of the spinal cord, which innervate intrafusal fibers. (fyü zē mō dō'nù,rän }

fusing disk [MECH ENG] A rapidly spinning disk that cuts metal by melting it. { 'fyüz in disk }

fusinite [GEOL] The micropetrological constituent of fusain which consists of carbonized woody tissue. { 'fyüz-ən,īt } fusinization [GEOL] The process of formation of fusain in coal. { ,fyüz-ən-ə'zā-shən }

fusion [NUC PHYS] Combination of two light nuclei to form a heavier nucleus (and perhaps other reaction products) with release of some binding energy. Also known as atomic fusion;

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ata that contains a the number's sign.

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ig'nif-i-kənt ,dij-ət } decimal place which : done; this is usually neasurement. Also fig·yər }

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on, always at or near the algebraic sign of ən }

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trapped in fjords; it d snow drifts contrib

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lass of silicon-based , straight-chain, satue gaseous or liquid

of compounds whose ound directly to one of silcrete. [GEOL] A conglomerate of sand and gravel cemented

ellent discharge [ELECTR] An inaudible electric discharge in air that occurs at high voltage and consumes a relatively large amount of energy. { |sī·lənt 'dis,charj }

slient mutation [GEN] A mutation that does not result in amino acid sequence change. { 'sī lənt myü'tā shən }
slient period. [commun] Period during each hour in which

ship and shore radio stations must remain silent and listen for

disress calls ('srlent'pireed)
silent speed [ENG] The speed at which silent motion pictures are fed through a projector, equal to 16 frames per second (sound-film speed is 24 frames per second). ('sī·lənt 'sped) silent stock support [MECH ENG] A flexible metal guide tube in which the stock tube of an automatic screw machine rotates;

it is covered with a casing which deadens sound and prevents transfer of noise and vibration. { 'sī lənt 'stak sə port } silex [MATER] Heat- and shock-resistant glass containing about 98% quartz. [MINERAL] A pure or finely ground quartz. { sī,leks }

silexite [GEOL] Chert occurring in calcareous beds. [PETR] igneous rock composed mainly of primary quartz. { sī'lek,sīt } silhouette target [ORD] 1. Target whose shape is outlined against a light background, although its body features cannot be clearly seen. 2. Practice target consisting of the dark image of a person or object outlined against a light background. { ,silo'wet tar got }

silica [MINERAL] SiO₂ Naturally occurring silicon dioxide; occurs in five crystalline polymorphs (quartz, tridymite, cristobalite, coesite, and stishovite), in cryptocrystalline form (as chalcedony), in amorphous and hydrated forms (as opal), and combined in silicates. { 'sil·ə·kə }

silica aerogei [MATER] A colloidal silica powder whose grains have small pores; used as a low-temperature insulator. 'siləkə 'erəjel]

silica brick [MATER] A type of refractory brick formed of at least 90% silica cemented with, for example, slurried lime; used to line furnace roofs. { 'sil-ə-kə 'brik }

silica cement [MATER] A mortar used with silica cement; it is a refractory material. { 'sil-ə-kə si'ment }

silica flour [MET] A sand additive for casting produced by pulverizing quartz sand. ['sil-ə-kə 'flau-ər]

silica gel [INORG CHEM] A colloidal, highly absorbent silica used as a dehumidifying and dehydrating agent, as a catalyst carrier, and sometimes as a catalyst. { 'sil-o-ko 'iel }

silica glass [MATER] A translucent or transparent vitreous material consisting almost entirely of silica. Also known as fused silica; vitreous silica. { 'sil·ə·kə 'glas }

silica sand [GEOL] Sand having a very high percentage of silicon dioxide; a source of silicon. { 'sil-a-ka 'sand }

silica stone [PETR] A sedimentary rock composed of siliceous minerals. { 'sil-a-ka 'stōn }

silicate [INORG CHEM] The generic term for a compound that contains silicon, oxygen, and one or more metals, and may contain hydrogen. [MINERAL] Any of a large group of minerals whose crystal lattice contains SiO₄ tetrahedra, either isolated or joined through one or more of the oxygen atoms. { 'silakat }

silicate cement [MATER] The silicate of soda glue, used as an adhesive in cardboard and plywood boxes. { 'sil a kat si ment }

silicate cotton See mineral wool. { 'sil-ə-kət 'kät-ən } silicate grinding wheel [DES ENG] A mild-acting grinding wheel where the abrasive grain is bonded with sodium silicate and fillers. { 'sil-ə-kət 'grīnd-in ,wēl }

silicate of soda See sodium silicate. { 'sil-ə-kət əv 'sōd-ə } silicate paint [MATER] A paint in which the vehicle is watersoluble sodium silicate; used for painting mortar. { 'sil ə kət pānt }

silication [GEOL] The conversion to or the replacement by

silicates. (,sil-ə'kā-shən)
silicatization. [MIN ENG] The sealing off of water by the injection of calcium silicate under pressure; sometimes used to reduce the leakage of water through defective lengths of tubing in a shaft. { ,sil·ə,kād·ə'zā·shən }

sliceous [PETR] Describing a rock containing abundant silica, especially free silica. { sə'lish əs }

sliceous dust [MIN ENG] The dust arising from the dryworking of sand, sandstone, trap, granite, and other igneous rocks; the dust is not soluble in the body fluids, and often results in a form of pneumoconiosis, known as silicosis. { sə'lish əs

siliceous earth [GEOL] A loose, friable, soft, porous, lightweight, fine-grained, and usually white siliceous sediment, usually derived from the remains of organisms. { sə'lish əs 'ərth } siliceous limestone [PETR] 1. A dense, dark, commonly thinbedded limestone representing an intimate admixture of calcium carbonate and chemically precipitated silica that are believed to have accumulated simultaneously. 2. A silicified limestone, bearing evidence of replacement of calcite by silica. { sə'lishəs 'līm,stön }

siliceous ooze [GEOL] An ooze composed of siliceous skeletal remains of organisms, such as radiolarians. { sə'lish əs 'üz }

siliceous sediment [GEOL] A sediment composed of fragmental, concretionary, or precipitated siliceous materials. { sə'lish-əs 'sed-ə-mənt }

siliceous shale [PETR]. A hard, fine-grained rock with the texture of shale and with as much as 85% silica. { sə lish əs shāl }

siliceous sinter [MINERAL] A white, lightweight, porous, opaline variety of silica, deposited by a geyser or hot spring. Also known as fiorite; geyserite; pearl sinter; sinter. { sə'lish. əs 'sin tər }

sificic [PETR] Describing magma or igneous rock rich in silica (usually at least 65); granite is a silicic rock. Also known as

oversaturated; persilicic. { səˈlis-ik } silicic acid [INORG CHEM] SiO₂ nH₂O A white, amorphous precipitate; used to bleach fats, waxes, and oils. Also known

as hydrated silica. { sə'lisrik 'as-əd }
silicide [CHEM] A binary compound in which silicon is bonded with a more electropositive element. { 'sil-a,sid } silicide resistor [ELECTR] A thin-film resistor that uses a silicide of molybdenum or chromium, deposited by direct-current sputtering in an integrated circuit when radiation hardness or high resistance values are required. { 'sil'ə,sīd ri 'zis tər } silicification [GEOL] Introduction of or replacement by silica.

Also known as silification. { səˌlis-ə·fəˈkā·shən } silicified wood [GEOL] A material formed by the silicification of wood, generally in the form of opal or chalcedony, in such a manner as to preserve the original form and structure of the wood. Also known as agatized wood; opalized wood; petrified

wood; woodstone. { səˈlis-əˌfid wud } silicinate [GEOL] Pertaining to the silica cement of a sedimentary rock. { səˈlis-ən āt }

siliclastic [PETR] Pertaining to clastic noncarbonate rocks which are almost exclusively silicon-bearing, either as forms of quartz or as silicates. { sil·ə klas·tik }

silicle [BOT] A many-seeded capsule formed from two united carpels, usually of equal length and width, and divided on the inside by a replum. { 'sil-ə-kəl }

silicobiast [INV 200] Poriferan amebocytes involved in formation of siliceous spicules. { 'sil-a-ka,blast } Silicoflagellata [BOT] A class of unicellular flagellates of the plant division Chrysophyta represented by a single living genus,

Dictyocha. { |sil-ə-kō,flaj-ə-lad-ə } Silicoflagellida [INV 200] An order of marine flagellates in the class Phytamastigophorea which have an internal, siliceous, tubular skeleton, numerous yellow chromatophores, and a single flagellum. { |sil-ə-kō-flə'jel-əd-ə }

silicomagnesiofluorite [MINERAL] Ca₄Mg₃Si₂O₅(OH)₂F₁₀ A mineral composed of basic calcium magnesium fluoride and silicate. { |sil-ə-kō-mag,nē-zē-ō-flur,ī t }

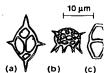
sillcomanganese [MET] A crude alloy made up of 65-70% manganese, 16-25% silicon, and 1-2.5% carbon; used in the manufacture of low-carbon steel. { 'sil-ə-kō'maŋ-gə,nēs } silicon [CHEM] A group IV nonmetallic element, symbol Si, with atomic number 14, atomic weight 28.086; dark-brown crys-

tals that burn in air when ignited; soluble in hydrofluoric acid and alkalies; melts at 1410°C; used to make silicon-containing alloys, as an intermediate for silicon-containing compounds, and in rectifiers and transistors. { 'sil-a-kan } silicon bromide See silicon tetrabromide. { 'sil·ə·kən

'brō,mīd } silicon bronze [MET] An alloy of copper with 1-5% silicon; it is corrosion-resistant and has good mechanical properties. 'sil·ə·kən 'bränz }

silicon burning [NUC PHYS]. The synthesis, in stars, of ele-

SILICOFLAGELI



Examples of fossil and Silicoflagellata. (a) Dic Cretaceous to Recent: (b) Cannopilus, Miocer (c) Naviculopsis, Eoce Miocene; and (d) Valla Upper Cretaceous.



Webster's Collegiate Dictionary

TENTH EDITION

Merriam-Webster, Incorporated Springfield, Massachusetts, U.S.A.

EXHIBIT



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Library of Congress Cataloging in Publication Data Main entry under title:

Merriam-Webster's collegiate dictionary. — 10th ed.

ISBN 0-87779-708-0 (unindexed). — ISBN 0-87779-709-9 (indexed).

— ISBN 0-87779-710-2 (deluxe). — ISBN 0-87779-707-2 (laminated cover).

1. English language—Dictionaries.

PE1628.M36

423-dc20

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ferm tight (fr. L firmus firm) + lier to tie, fr. L ligare — more at LIGATURE] w (1556): to wrap or roll (as a sail or a flag) close to or around something ~ wi. to curl or fold as in being furled furl in (1643) 1: a furled coil 2: the act of furling furlong \(\forall forall forall forall forall forall furled forall furlong \(\forall forall forall forall forall forall furled forall furled forall forall forall forall furled forall fo

Same

ture in which heat is produced (as for heating a house or for reducing ore)

furnish \fir-nish\ vt [ME furnisshen, fr. MF fourniss-stem of fournir to complete, equip, of Gmc origin; akin to OHG frummen to further, fruma advantage — more at ForeMosT] (15c) 1: to provide with what is needed; eps: to equip with furniture 2: supply, give dod and shelter for the refugees) — fur-nisher n

syn FURNISH, EQUIP, OUTFIT APONINT, ACCOUTRE mean to supply one with what is needed. FURNISH implies the provision of any or all essentials for performing a function (a sparsely furnished apartment). EQUIP suggests the provision of something making for efficiency in action or use (a fully equipped kitchen). OUTFIT implies provision of a complete list or set of articles as for a journey, an expedition, or a special occupation (outfitted the family for a ski trip). APPOINT implies provision of complete and usu, elegant or elaborate equipment of furnishings (alavishly appointed apartment). ACCOUTRE suggests the supplying of personal dress or equipment for a special activity (fully accourred members of a polar expedition).

furnishing n (1594) 1: an article or accessory of dress — usu, used in pl. 2: an object that tends to increase comfort or utility; esp: an article of furniture \(\forall \) furnishing for the interior of a building — usu, used in pl. furnishing holds. The furniture is necessary, useful, or desirable: as a archaic: the trappings of a horse b: movable articles used in readying an area (as a room or patio) for occupancy or use furniture beetle n (1925): a widespread deathwatch beetle (Anobium furnishing beetle (Anobium fu

ment that is necessary, useful, or desirable; as a archaic; the trappings of a horse b: movable articles used in readying an area (as a room or patio) for occupancy or use furniture beetle n (1925); a widespread deathwatch beetle (Anobium punctatum) noted for boring in and damaging furniture and seasoned wood

fur-rin-er \for-o-nor\ n [alter. of foreigner] (1849) : FOREIGNER 2

used to represent a dial. pronunc.

fur-ring \(\frac{1}{2} + \overline{1} \) n (14c) 1: a fur trimming or lining 2 a: the application of thin wood, brick, or metal to joists, studs, or walls to form a level surface (as for attaching wallboard) or an air space b: the

plication of thin wood, brick, or metal to joists, studs, or waits to form a level surface (as for attaching wallboard) or an air space b: the material used in this process

*furrow \for-(\lambda t) \sqrt{-0}\tau_1\t

ther-on'n (13c) 1: FARTHER I (rode: across the valley and up the slopes —T. E. Lawrence) 2: going or extending beyond: ADDITIONAL (~ volumes) (~ education) usage see FARTHER further-ance \forting or in-the \n (15c): the act of furthering

further education n (1937) Brit: ADULT EDUCATION further-more \for-tha(r)-mor, -mor\ adv (13c): in addition to what precedes: BESIDES further-more \forall horses.

precedes: BESIDES
fur-ther-most \ di) (15c): most distant: FARTHEST
fur-ther-most \ fibr-r,most \ ady (15c): most distant: FARTHEST
fur-thest \ for-thest \ adv or adj (14c): FARTHEST
fur-tive \ for-tiv\ adj [F or L; F furiti, fr. L furtives, fr. furtum theft; fr.
fur.thief, fr. or akin to Gk phor thief, pherein to carry,—more at BEAR]
(1612). 1 a : done by stealth: SURREPTITIOUS b : expressive of
stealth: SLY \ (had a \simeq look about him) \ 2 : obtained underhandedly
: STOLEN \ syn \ see \ SECRET — fur-tive-ly \ adv — fur-tive-nessin
fu-run-cle \ \ fy\u00fcr-y-n-kol\ n [L \ furunculus \ petty \ thief, \ boil, \ dim. \ of \ furon-, furo ferret, \ thief, \ fr. \ fur \] (1676): \ 2801L

fu-run-cu-lo-sis \fyu-rop-kyo-'lō-sos\ n, pl-lo-ses \-, sēz\ [NL] (18: 1: the condition of having or tending to develop multiple furuncles: a highly infectious disease of various salmonoid fishes (as trout) discaused by a bacterium (Bacterium salmonicida) and is sep. virulent dense fish populations (as in hatcheries) fu-ry \fyu-e, n, pl furies [ME furie, fr. MF & L; MF, fr. L furia, furere to rage] (14c) 1: intense, disordered, and often destruct rage 2 a cap: any of the avenging deities in Greek mythology a torment criminals and inflict plagues b: an avenging spirit c: (who resembles an avenging spirit; esp: a spiteful woman 3: extre fierceness or violence 4: a state of inspired exaltation: FRENZY 5 see ANGER

fierceness or violence 4: a state of inspired exaltation: FRENZY s see ANGER
furze \(\frac{1}{2}\) farse \(\frac{1}{2}\) firse, fr. OE \(fyrs; \) akin to Russ \(pyrei \) quack gn
Gk \(pyros \) wheat] \((bef. 12c) : \) GORSE \(- \frac{1}{2} \) turzy \(\frac{1}{2} \) - ze? \(adj \) furses \(adj \) [L \(furses s \) \(pure \) at \(pre \) at \(adj \) [L \(furses s \) \(pure \) at \(pre \) at \(adj \) [L \(furses s \) \(pure \) at \(pre \) at \(adj \) [L \(furses s \) \(pre \) at \(adj \) do not several colors a veraging a brownish gray

*| furse \(\frac{1}{2} \) vizz \(v \) b fursed; fursing [L \(furses s \) \(pre \) of \(fundere \) to pour, melt more at FOUND] \(v(1592) \) 1: to reduce to a liquid or plastic state heat \(2 : \) to blend thoroughly by or as if by melting together: o

BINE \((in \) her richest work she \(\sigma s \) comed fluid with ror without use of an adhesive \(\sigma v \) \(v \) 1 \(a : \) to become fluid with heat \(b \) Brit: fail because of the blowing of a furse \(2 : \) to become blended or join by or as if by melting together \(syn \) see MIX

*\(\frac{1}{2} \) furse \(n \) (1884): an electrical safety device consisting of or including wire or strip of fursible metal that melts and interrupts the circuit we the current exceeds a particular amperage

*\(\frac{1}{2} \) furse \(fill \) furses, of unknown origin \(\frac{1}{2} \) (1644) 1 continuous train of a combustible substance enclosed in a cord or continuous train of a combustible substance enclosed in a cord or continuous train of a combustible substance enclosed in a cord or continuous train of a combustible substance enclosed in a cord or continuous train of a combustible substance enclosed in a cord or continuous train of a combustible substance for setting off the busing charge of a projectile, bomb, or torpedo

*\(\frac{1}{2} \) furse \(\frac{1}{2} \) furse \(o \) furse \(\

: a mechanical or electrical detonating device for setting on the oping charge of a projectile, bomb, or torpedo

*fuse or fuze \'fyüz\ vr fused or fuzed; fus-ing or fuz-ing (1802)

*equip with a fuse
fused quartz n (1925): QUARTZ GLASS — called also fused silica
fused expu-ze\ n [F fuse, lit., spindleful of yarn, fr. OF, fr. fus spin
fr. L fusus] (1622) 1: a conical spirally grooved pulley in a time
from which a cord or chain unwinds onto a barrel containing
spring and which by its increasing diameter compensates for the les
ing power of the spring 2: a red signal flare used esp. for protec

stalled trains and trucks
fuse-lage \'fy\"us-s-\ lage \'fy\"us-s-\ n [F, fr. fuselé spindle-shaped, fr. Mf-

staticd trains and trucks fu-se-lage \fivs-lage \fivs-l

armed with fusils

solider armed with a tusil

fu-sall-lade \fy\(^{1}\subseteq\). \(^{1}\subseteq\). \(^{1}\subseteq\}. \(^{1}\subseteq\). \(^{1}\subseteq\). \(^{1}\subseteq\}. \(^{1}\

the release of enormous quantities of energy when certain ignments unite fu-sion-ist \footnote{fusion-ist} \footnote{fusion-ist} \footnote{fusion or in nuclear or musical fusion if uso \footnote{fusion in nuclear or musical fusion if uso \footnote{fusion in nuclear or musical fusion if uso \footnote{fusion in nuclear or ment: commotion b: a show of flattering attention (made a bover his favorite niece) 2 a: a state of agitation esp. over a to matter b: objection protest c: an often petty controversy or rel (ended up having a pretty good \sim with my wife —Mac Hymar \footnote{fusion in a state of restless activities to shower flattering attentions (\sim ing over the grandchildren) if pay close or undue attention to small details (\sim ed with her hair) is to become unset: workey b: to express annoyance or pique:

: to shower flattering attentions (~ing over the grandchildren) pay close or undue attention to small details (~ed with her hair): to become upset: WORRY b: to express annoyance or pique: PLAIN ~vt: AGITATE. UPSET—fusser n fuss-budget \footnote{1} \text{So-pi} \text{N} \text{ (ca. 1904): one who fusses or is fuss; about trifles—fuss-budgety \text{-jo-te} \text{ adj} \text{ fuss-pix \text{ (n 1924): FUSSBUDGET fussy \footnote{1} \text{ fuss pix \text{ (adj fuss-i-er; -est (1831)}} 1: easily upset: IRRITAL: overly decorative (a ~ wallpaper pattern) 3 a: requiring of close attention to details (~ bookkeeping procedures) b: revea sometimes extreme concern for niceties: FASTIDIOUS, PICKY—fus \footnote{1} \text{ fuss-i-ers, \footnote{1} \text{ fuss-i-ers, \footnote{1} \text{ (adj fus

resection n (1804): a tract of land that is half a mile square and large sessions n pt (1577): a former English local court with limiting and appellate criminal and sometimes civil jurisdiction and appellate criminal and sometimes civil jurisdiction former and appellate criminal and sometimes civil jurisdiction that a county or by a recorder in a borough the beige in a county or by a recorder in a borough the beige in a county or by a recorder in a borough the beige in a county or by a recorder in a borough the beige in the middle and the other between the middle and the one with the middle and the end that in the middle and the end in the table of the properties of a quartet country and it is a musical composition for a significant or voices 2: a group or set of four; esp: the permission of a quarter and it a quartus fourth (ca. 1800) of the fourth that the properties of the properties of the fourth of the properties of the properties of the fourth of the properties of

instruments of voices 2. a group of set of four, esp: the person of a quartet adj [L quartus fourth] (ca. 1890); of the fourth

The \\\\ \adj \ \L \quartus tourth \ \ (ca. 1890) : of the fourth \\\ \alpha \= \quartus \ \left(\alpha \) = \quartus \ \quartus \ \left(\alpha \) = \quartus \ \quartus \ \left(\alpha \) = \quartus \ \quartus \quartus \ \quartus \ \quartus \quartus \ \quartus \quartus \quartus \quartus \quartus \ \quartus \quartus

in that arrive in tenns one fourth of the total population; also: any one in a fact containing one fourth of the total population; also: any one in four classes in a piece of paper cut four from a sheet; also: paper or a limit of a piece of paper cut four from a sheet; also: paper or a limit of this size 2: a book printed on quarto pages in a part of this size 2: a book printed on quarto pages in a colories and transparent or colored hexaging of the colories and transparent or colored hexaging from dioxide occurring in coloriess and transparent or colored hexaging from the colories of the colories and transparent or colored hexaging from the colories of the colories and transparent or colored hexaging from divided in an electric field oscillates at a constant frequency and is used of control devices which require precise regulation (a ~ watch)—intributed from pure quartz and single for its transparency to ultraviolet radiation with the sample of the colories o

which reacts with the vaporized tungsten to prevent excessive blacken-ing of the bulb middle the bulb (i.e. 1847): a compact granular rock middle to the bulb (i.e. 1847): a compact granular rock emposed of quartz and derived from sandstone by metamorphism — middle to kwort-si-tik adj

quartz-It-ic \kwort-'si-tik\ adj mistar \kwā-zār also -,sār\ n [quasi-stellar] (1964): any of a class of mistar \kwā-zār also -,sār\ n [quasi-stellar] (1964): any of a class of mistar of the class of the class of the class of the class of the mistar \kwāsh, kwosh\ vr [ME quasher to smash, fr. MF quasser, mistar \kwāsh, kwosh\ vr [ME quasher to smash, fr. MF quasser, mistar of the class of the class

nebellion) in ME quassen, fr. MF casser, quasser to annul, fr. LL cassare, in Lassus void](14c): to nullify esp. by judicial action (∼ an indict-

fi., L cassus void] (14c): to nullify esp. by judicial action (~ an indictional) when we have a similar to the late of the lat

infantes as newborn babes (words of the introit for Low Sunday) (ca. infantes as newborn babes (words of the introit for Low Sunday) (ca. infantes as newborn babes (words of the introit for Low Sunday) (ca. infantes) (ca. infantes)

qua-ter-ni-on \kwa-'tar-nē-an, kwä-\ n [ME quaternyoun fr: LL quaternion, quaternio, fr. L quaterni four each, fr. quater four times; akin to L quativor four — more at FOUR] (14c) 1: a set of four parts, things, or persons 2: a: a generalized complex number that is composed of a real number and a vector and that depends on one real and three imaginary units: b pl: the calculus of quaternions qua-ter-ni-ty \kwa-'tar-na-tē, kwä-\ n; pl: -ties [LL quaternitas, fr. L quaterni four each] (1529): a uniton of a group or set of four qua-train \kwä-\train, kwä-\ n; [MF, fr. quatre four, fr. L quattuor] (1582): a unit or group of four lines of verse qua-tre-foil \'ka-tar-foil, ka-tar-\ n [ME quaterfoil set of four leaves, fr. MF quaire + ME -foil (as in trefoil)] (15c) 1: a conventionalized representation of a flower with four petals or of a leaf with four leaflets 2: a 4-lobed foliation in architecture quat-tro-cen-to \kwä-tro-chen-(hō) n; often cap [It, lit. four hundred, fr. quattro four (fr. L quattuor) + cento hundred — more at cin-quecknoto] (ca 1854): the 15th century esp. with reference to Italian literature and art

dred, fr. quattro four (fr. L qualtuor) + cento nundred into a more at the course of t

Oue-bec, kwi-bek also ki-\ (1952)—a communications code word for the letter q

Que-be-cois or Qué-be-cois \ka-ba-'kwa, ,be-\ n, pl Quebecois or Quebecois \ka-kwa(z)\ [F quebecois, quebecois, fr. Quebec Quebec]
(1873): a native or inhabitant of Quebec; specif: a French-speaking native or inhabitant of Quebecois or Quebecois adj que-bra-cho \ka-bra-\ka-bra-\ka-kwa, [ca. 1881] 1: any of several trees of southern So. America with hard wood: as a: a tree (Aspidasperma quebracho) of the dogbane family which occurs in Argentina and Chile and whose dried bark is used as a respiratory sedative in dyspnea and in asthma b: a chiefly Argentine tree (Schinopsis Iorentzii) of the cashew family with dense wood rich in tannins 2 a: the wood of a quebracho b: a tannin-rich extract of the Argentine quebracho used in tanning leather.

Que-chua \ke-ch-awa, kech-wa\ n, pl Que-chua or Que-chuas (Sp. prob. fr. Southern Peruvian Que-chua dheswa (simi), lit. valley speech] (1840) 1: a family, of closely related languages spoken by Indian peoples of Peru, Bolivia, Ecuador, Chile, and Argentina 2 a: a member of an Indian people of central Peru b: a group of peoples constituting the dominant element of the Inca Empire — Que-chu-an \wan\ adj or n

Inneen \ki wen\ n f [ME quene, fr. OE cwen woman, wife, queen akin to

member of an Indian people of central Peru b: a group of peoples constituting the dominant element of the Inca Empire — Que-chu-an \won\'adj or n [ME quene, fr. OE cwen woman, wife, queen; akin to Goth qens wife. Gk gyne woman, Skt | ani] (bef. 12c) 1 a: the wife or widow of a tribal chief 2 a: a fermale monarch b: a female chieftain 3 a: a woman eminent in rank, power, or attractions (a movie ~> b: a goddess or a thing personified se female and having supremacy in a specified realm c: an attractive girl or woman; esp: a beauty contest winner 4: the most privileged piece of each color in a set of chessmen having the power to move in any direction across any number of unoccupied squares 5: a playing, card, marked with a stylized figure of a queen 6: the fertile fully developed female of social bees, ants, and termites whose function is to lay eggs 7: a mature female cat kept esp. for breeding 8: a male homosexual: esp: an effeminate one — often used disparagingly queen wi (1611) 1: to act like a queen; esp: to put on airs — usu used with it (~si to over her friends) 2: to become a queen in chess of the promote (a pawn) to a queen in chess of the promote (a pawn) to a queen in chess of the promote (a pawn) to a queen of England (1863) 1: of, relating to, or having the characteristics of a style of furniture originating in England under Dutch influence esp. during the first half of the 18th century that is marked by extensive use of upholstery, marquetry, and oriental fabrics 2: of, relating to, or having the characteristics of a style of English building of the early 18th century characterized by modified classic ornament and the use of red brickwork in which even relief ornament is carved.

Queen Anne's face n (1895): a widely naturalized Eurasian biennial herb (Daucus carota) which has a whitish acrid taproot and from which the cultivated carrot, which has a whitish acrid taproot and from which the cultivated carrot, originated — called also wild carrot queen consort n. pl queens consort (1765): the wife of a r

king queen-ly \kwen-te\ adj queen-li-er; -est (15c) 1: of, relating to, or belitting a queen 2: having royal rank 3: MONARCHICAL — queen-li-ness n—queenly adv queen mother n (1577): a queen dowager who is mother of the reign-

) abut ' kitten, F table ' \or\ further' \a\ ash \a\ ace \a\ mop, mar \au\'out \ch\'chin \c\ bet \c\ easy \g\.go. \i\\hit \h\\ loe \j\\ job \n\\ sing \o\ go. \o\.law \oi\ boy \th\ thin \th\ the \ii\ loot \o\\ foot \y\ yet \zh\ vision \a, k, n, ce, &, ue, ue, \vec{v}, see Guide to Pronunciation

